



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/29, 15/82, 5/10, A01H 5/00	A3	(11) International Publication Number: WO 99/53067 (43) International Publication Date: 21 October 1999 (21.10.99)
(21) International Application Number: PCT/CA99/00293 (22) International Filing Date: 13 April 1999 (13.04.99) (30) Priority Data: 09/059,090 13 April 1998 (13.04.98) US (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 09/059,090 (CIP) Filed on 13 April 1998 (13.04.98) (71) Applicant (for all designated States except US): HER MAJESTY IN RIGHT OF CANADA as represented by THE MINISTER OF AGRICULTURE AND AGRI-FOOD CANADA [CA/CA]; Eastern Cereal & Oilseed Research Centre, K.W. Neatby Building, Ottawa, Ontario K1A 0C6 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): MIKI, Brian [CA/CA]; 1876 Dorset Drive, Ottawa, Ontario K1H 5V1 (CA). GI-JZEN, Mark [CA/CA]; 848 Princess Avenue, London, Ontario N5W 3M4 (CA). MILLER, Shea [CA/CA]; 69 Kenilworth Street, Ottawa, Ontario K1Y 3Y5 (CA). BOW-		MAN, Lu-Ann [CA/CA]; R.R. #3, Listowel, Ontario N4W 3G8 (CA). BATCHELOR, Anthea [GB/CA]; 45 Alexander Street, Ottawa, Ontario K1M 1N1 (CA). HU, Ming [CA/CA]; 279 Kundson Drive, Kanata, Ontario K2K 2N8 (CA). BOUTILIER, Kim [CA/NL]; Groen van Prinsterstraat 87, NL-6702 CP Wageningen (NL). (74) Agents: SECHLEY, Konrad, A. et al.; Gowling, Strathy & Henderson, Suite 2600, 160 Elgin Street, Ottawa, Ontario K1P 1C3 (CA). (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 9 December 1999 (09.12.99)
(54) Title: SEED-COAT PROMOTERS, GENES AND GENE PRODUCTS (57) Abstract <p>The present invention is directed to isolated genomic sequences that are differentially expressed within seed-coat tissues. These DNAs are expressed within the inner integument, thick, or thin, walled parenchyma, endothelium, palisade, hourglass, or stellate parenchyma cells of the seed-coat. Furthermore, this invention relates to promoter regions obtained from genomic sequences that are differentially expressed in seed-coat tissues, and their use for directing seed-coat specific expression of genes of interest within transformed plant cells or plants. Exemplified promoters include those obtained from the differential screening of a seed-coat library and cryptic promoters obtained using T-DNA tagging using a promoterless marker gene.</p>		